

REAR VIEW MIRROR SYSTEM

■ DESCRIPTION

The rear view mirrors have the following functions:

●: Standard OP: Option —: Not Equipped

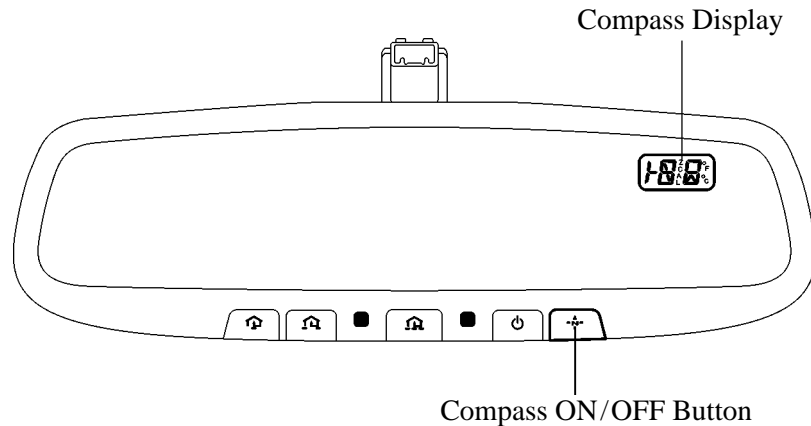
Mirror	Function		SR5	Limited	Platinum
Inside Rear View Mirror	Compass Display		OP	●	●
	Automatic Glare-resistant EC (Electrochromic)		OP	●	●
	Garage Door Opener		OP	●	●
Outside Rear View Mirror	Electric Remote	Manual Retractable	●	—	—
		Power Retractable	—	●	●
	Extend		—	●	●
	Mirror Heater		OP*	●	●
	Automatic Glare-resistant EC		—	●	●
	Memory System (See page BE-211)		—	OP	●
	Foot Light		—	OP	●
	Turn Signal Light		—	●	●

*: For Cold Area Specification Models

■ COMPASS DISPLAY

A sensor that detects the earth's magnetic field is built inside the inside rear view mirror. Because of its location, this sensor is influenced less by the magnetization of the vehicle.

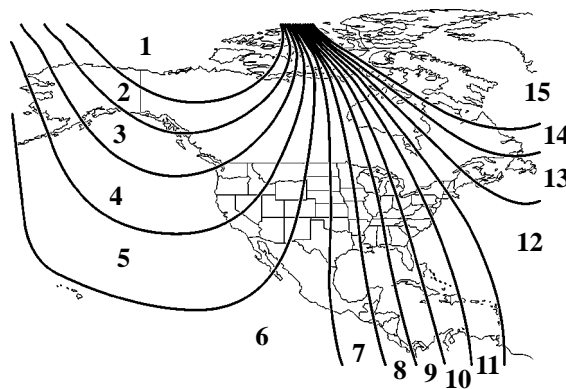
- The compass indicates the forward direction of the vehicle using eight azimuths (N, NE, E, SE, S, SW, W, and NW).
- Pressing the compass ON/OFF button for about 3 seconds displays the compass.



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Service Tip

To ensure an accurate compass reading, it is necessary to perform a magnetic variation (declination) adjustment in order to set the number that identifies the region that the vehicle will be used in. The numbers that identify the regions are shown in the illustration below.



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As the compass system needs to memorize the vehicle's marked magnetic field, it is necessary to perform calibration for each vehicle. Once calibration has been completed, it is not necessary to perform calibration unless a sudden magnetic field change occurs. In case of occurrence of a sudden magnetic field change, "CAL" will be displayed in the compass display and it will be necessary to perform calibration again.

For details, see the 2008 Sequoia Repair Manual (Pub. No. RM08L0U).

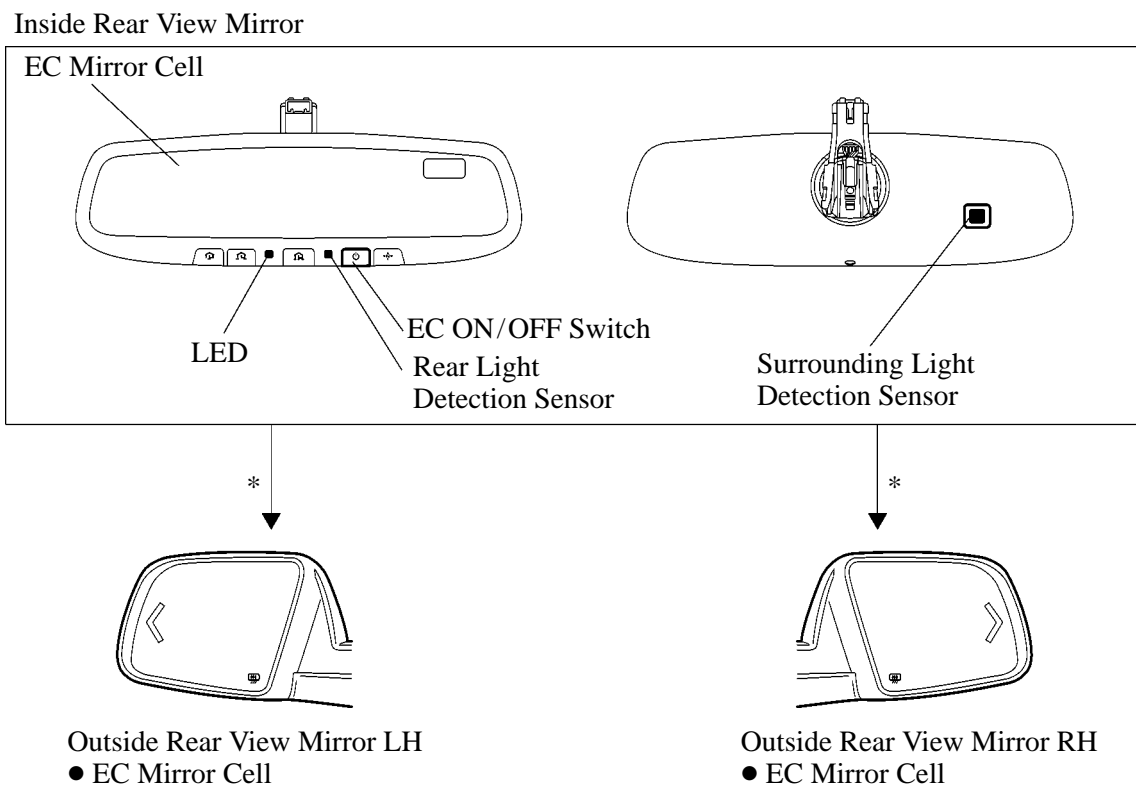
■ AUTOMATIC GLARE-RESISTANT EC MIRROR

1. General

During nighttime driving, if a large difference in intensity exists between the surrounding light and the light reflected off the inside rear view mirror from the headlights behind, an automatic glare-resistant EC (Electrochromic) mirror automatically reduces the reflection rate of the inside or outside rear view mirrors and thus dampens the glare from the mirror.

- This system uses two sensors the (surrounding light detection sensor and the rear light detection sensor) that are present in the inside rear view mirror to detect the difference between the intensity of light in the environment and the light that the inside rear view mirror receives from the rear of the vehicle.
- When the ignition switch is turned from OFF to ON, this system defaults to AUTO ON mode.

2. System Diagram



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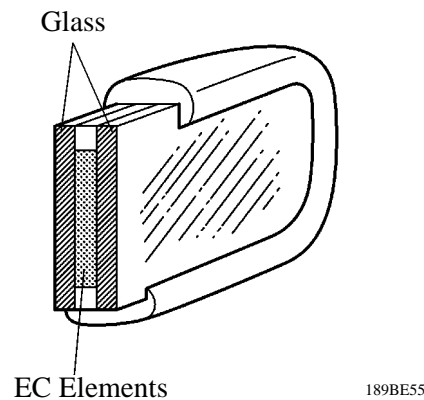
*: For Limited and Platinum Grades

3. Function of Main Components

Component	Function
Surrounding Light Detection Sensor	Detects the intensity of the light surrounding the vehicle.
Rear Light Detection Sensor	Detects the intensity of the light that strikes the inside rear view mirror from behind the vehicle.
LED	Turns on to inform the driver when the AUTO mode is operating.
EC ON/OFF Switch	Selects or disables AUTO ON/OFF mode.
EC Mirror Cell	Varies the reflection rate of the mirrors using the function of the EC elements.

4. EC Mirror Cell

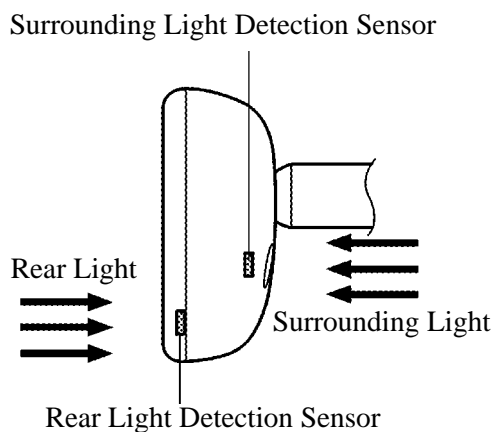
An EC mirror cell consists of 2 layers of glasses, which sandwich the EC (Electrochromic) elements in the middle. The EC elements control their color changing characteristics through their electro-chemical oxidation reduction reaction. These characteristics are utilized to electronically vary the mirror's reflection rate.



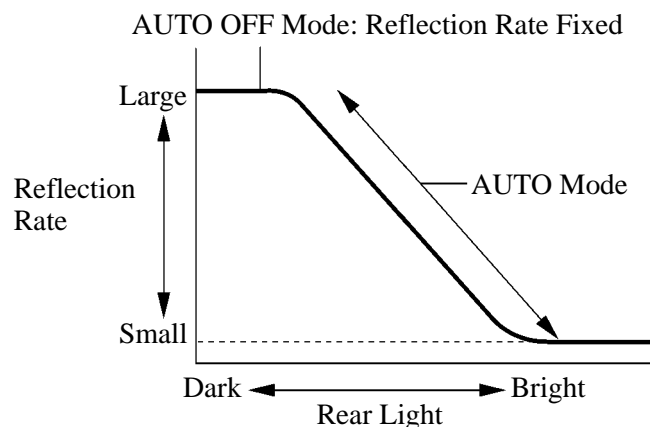
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5. Reflection Rate Control

A CPU detects the surrounding light using its surrounding light detection sensor, the light from the rear using its rear light detection sensor, and determines whether it is day or night based on the intensity of the surrounding light. At the same time, the intensity of the glare from the rear is determined through the difference in intensity between the surrounding light and rear light. In accordance with the intensity of the rear light, the reflection rate is varied steplessly.



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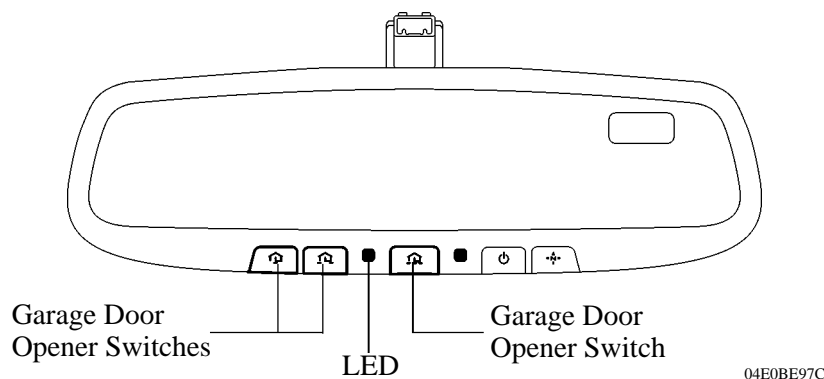
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■ GARAGE DOOR OPENER

1. General

The garage door opener enables a garage door to be opened or closed from inside the vehicle by operating the garage door opener switch that is provided in the inside rear view mirror.

- Up to three types of transmitter codes can be registered in the garage door opener.
- An LED is provided to enable the operator to verify the operation mode of the garage door opener.
- A rolling code function is used, which changes the transmitter code each time the garage door opener switch is pressed. For details, of procedures of transmitter code registration, refer to the 2008 Sequoia Repair Manual (Pub. No. RM08L0U).



2. Function

The following table shows the mode and the indicator light operation.

Mode	Outline	Indicator Light
Transmission Mode	While the switch is being pressed, the garage door opener transmits the code that was previously registered. Even if the button is pressed continuously, the transmission stops after 20 seconds.	Flash → ON (Rolling Code) ON (Except Rolling Code)
Learning Mode	When the button is pressed continuously for 20 seconds, the mode changes to a learning mode in which a transmitter code can be registered. In this mode, a new transmitter code can be registered or an existing code can be overwritten. If no codes are registered within 90 seconds after entering the learning mode, the mode changes to a low power mode.	Slow Flashing (During Learning Mode) Quick Flashing (Registration Completed)
All Delete Mode	When the two garage door opener switches on the outer-right and outer-left sides are pressed simultaneously for 20 seconds, all the transmitter codes that are registered to the three switches are cleared. By releasing these switches within 10 seconds after clearing the codes, the switches will automatically select learning mode the next time they are pressed. By keeping these switches pressed for longer than 10 seconds after clearing the codes, all these switches will be registered with a code for operation verification.	Quick Flashing (Code Clearing Completed)
Low Power Mode	If a switch remains pressed longer than 100 seconds, such as in the case in which the pressed switch does not release itself, the low power mode will be automatically selected to reduce power consumption.	OFF